

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): Kazutaka Yanagita et al.

Group Art Unit: 2812

Serial No.: 09/494,851

Examiner: Stacy Whitmore

Filed: February 1, 2000

4-25-02  
PR  
J1011 U.S. PRO  
10/06/068  
02/21/02



For: COMPOSITE MEMBER AND SEPARATING METHOD THEREFOR, BONDED SUBSTRATE STACK AND SEPARATING METHOD THEREFOR, TRANSFER METHOD FOR TRANSFER LAYER, AND SOI SUBSTRATE MANUFACTURING METHOD

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

This Information Disclosure Statement is filed in accordance with 37 C.F.R. §§1.56, 1.97 and 1.98. The items listed on Form PTO-1449, a copy of which is enclosed, are made of record to assist the Patent and Trademark Office in its examination of this application. The Examiner is respectfully requested to fully consider the items and to independently ascertain their teaching.

1.  For each of the following items listed on the enclosed copy of Form PTO-1449 that is not in the English language, an English language translation of that item or a portion thereof or a concise explanation of the relevance of that item is enclosed:
  
2.  For each of the following items listed on the enclosed copy of Form PTO-1449 that is not in the English language, a concise explanation of the relevance of that item is incorporated in the specification of the above-identified application.
  
3.  Any copy of the items listed on the enclosed copy of Form PTO-1449 that is not enclosed with this Information Disclosure Statement was previously cited by or submitted to the Patent and Trademark Office in application Serial No. 09/494,851, filed February 1, 2000.

4.  No fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with:

- 37 C.F.R. §1.97(b)(1), within three months of the filing date of a national application other than a CPA; or
- 37 C.F.R. §1.97(b)(2), within three months of the date of entry into the national stage as set forth in §1.491 in an international application; or
- 37 C.F.R. §1.97(b)(3), before the mailing date of a first Office action on the merits; or
- 37 C.F.R. §1.97(b)(4) before the mailing date of a first office action after the filing of an RCE under §1.114.

5.  No fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(c), after the period specified in paragraph 4 above but before the mailing date of a final action or a Notice of Allowance (where there has been no prior final action), and is accompanied by one of the certifications pursuant to 37 C.F.R. §1.97(e) set forth in paragraph 9 below.

6.  A fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(c), after the period specified in paragraph 4 above but before the mailing date of a final action or a notice of allowance (where there has been no prior final action):

- A check in the amount of \$180.00 is enclosed in payment of the fee.
- Charge the fee to Deposit Account No. 13-4500, Order No. \_\_\_\_\_. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

7.  A fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(d), after the mailing date of a final action or a notice of allowance, whichever comes first, but before payment of the issue fee, and is accompanied by:

- a. one of the certifications pursuant to 37 C.F.R. §1.97(e) set forth in paragraph 9 below; and
- b. the fee due under 37 C.F.R. §1.17(p) which is paid as set forth in paragraph 11 below.

8.  A fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with:

- 37 C.F.R. §1.313(b)(3) or §1.313(c)(1), after the issue fee has been paid and information cited in this Information Disclosure Statement may render at least one claim unpatentable and is accompanied by the attached Petition To Withdraw Application From Issue and fee pursuant to 37 C.F.R. §1.17(h);
- 37 C.F.R. §1.313(c)(2) or §1.313(c)(3), after the issue fee has been paid and information cited in this Information Disclosure Statement is to be considered in a Request for Continued Examination (RCE) or a Continuation application upon abandonment of the instant application and is accompanied by the attached Petition To Withdraw Application From Issue and fee pursuant to 37 C.F.R. §1.17(h).
- The fees due under 37 C.F.R. §§1.17(h) and 1.17(p) are paid as set forth in paragraph 11 below.

9.  I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

I hereby certify that no item of information in the Information Disclosure Statement filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

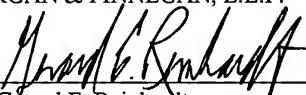
10.  This document is accompanied by  a Search Report  Communication which was cited in a corresponding  PCT or  Foreign counterpart application

11.  A check in the amount of \$180.00 is enclosed in payment of the fees due under 37 C.F.R. §§1.17(h) and 1.17(p).

Charge the fees due under 37 C.F.R. §§1.17(h) and 1.17(p) to Deposit Account No. 13-4500, Order No. \_\_\_\_\_. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

The Commissioner is hereby authorized to charge any additional fees which may be required for this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 13-4500, Order No. 1232-4610. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

Respectfully submitted,  
MORGAN & FINNEGAN, L.L.P.

By:   
Gerard E. Reinhardt  
Registration No. 43,041

Dated: February 21, 2002

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|--|--|--|-----------------------------------|--|
| <b>FORM PTO-1449</b><br><b>INFORMATION</b><br><b>DISCLOSURE CITATION</b> |  | Attorney Docket:<br>1232-4610US1       | Serial No.:<br>09/494,851         |  |
|  |  | Applicant:<br>Kazutaka Yanagita et al. |                                   |  |
|  |  | Filing Date:<br>February 1, 2000       | Group Art Unit:<br>Stacy Whitmore |  |

**U.S. PATENT DOCUMENTS**

| Examiner Initial |  | Patent Number | Issue Date | Name     | Class | Sub-Class | Filing Date |
|------------------|--|---------------|------------|----------|-------|-----------|-------------|
|                  |  | US 5,869,386  | 2/1999     | Hamajima |       |           |             |
|                  |  | US 6,143,628  | 11/2000    | Sato     |       |           |             |
|                  |  | US 6,190,937  | 2/2001     | Nakagawa |       |           |             |
|                  |  | US 6,140,209  | 10/2000    | Iwane    |       |           |             |
|                  |  |               |            |          |       |           |             |

**FOREIGN PATENT DOCUMENTS**

| Examiner Initial |  | Patent Number | Issue Date | Country                     | Class | Sub-Class | Translation  |
|------------------|--|---------------|------------|-----------------------------|-------|-----------|--|
|                  |  | 5-021338      | 1/29/93    | Japan (w/ English Abstract) |       |           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|                  |  | 7-302889      | 11/14/95   | Japan (w/ English Abstract) |       |           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|                  |  | JPA10-326882  | 12/8/98    | Japan                       |       |           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|                  |  |               |            |                             |       |           | <input type="checkbox"/> Yes <input type="checkbox"/> No |

**OTHER DOCUMENTS (Including Author, Title, Date, etc.)**

|  |  |   |
|--|--|---|
|  |  | English translation of Nagano et al., <u>IEICE Technical Report</u> , "Oxidized Porous Silicon and Its Application", Vol. 79, SSD79-9549 (1979)   |
|  |  | Imai et al., <u>Journal of Crystal Growth</u> , "Crystalline Quality of Silicon Layer Formed by FIPOS Technology", Vol. 63, 547 (1983)            |
|  |  | A. Uhli, <u>Bell System Technical Journal</u> , "Electrolytic Shaping of Germanium and Silicon", Vol. 35, 333 (1956)                              |
|  |  | T. Unagami, <u>Journal of Electrochemical Society</u> , "Formation Mechanism of Porous Silicon Layer by Anodization in HF Solution", Vol 127, 476 |
|  |  | Nagano et al., <u>IEICE Technical Report</u> , "Oxidized Porous Silicon and It's Application", Vol. 79, SSD79-9549 (1979)                         |
|  |  | K. Imai, <u>Solid State Electronics</u> , "A New Dielectric Isolation Method Using Porous Silicon", Vol. 24, 159 (1981)                           |
|  |  | R.P. Holmstrom and Y.Y. Chi, "Complete Dielectric Isolation By Highly Selective and Self-Stopping Formation of Oxidized Porous Silicon"           |
|  |  |   |

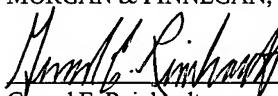
|  |                 |
|--|-----------------|
| Examiner   | Date Considered |
| <b>EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP §609.<br>Draw line through citation if not in conformance and not considered.<br>Include copy of this form with next communication to Applicant. |                 |

31011 U.S. PRO  
10/08/02  
02/21/02

| I. CALCULATION OF APPLICATION FEE                  |   |              |                  |                              |
|--|---|--------------|------------------|------------------------------|
|  | Number Filed                              | Number Extra | Rate             | Basic Fee<br>\$740.00/370.00 |
| Total Claims                                       | 3- 20 =                                   | 0x           | \$18.00/ \$9.00  | \$ 0                         |
| Independent Claims                                 | 3 - 3 =                                   | 0x           | \$80.00/ \$40.00 | \$ 0                         |
| <input type="checkbox"/> Multiple Dependent Claims | If marked, add fee of \$270.00 (\$135.00) |              |                  | \$ 0                         |
|  |   |              |                  | <b>TOTAL: \$ 740.00</b>      |

- Small entity status is or has been claimed. Reduced fees under 37 C.F.R. §1.9 (f) paid herewith  
\$\_\_\_\_\_
- A check in the amount of \$740.00 in payment of the application filing fees is attached.
- Charge fee to Deposit Account No. 13-4500, Order No. \_\_\_\_\_. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.
- The Commissioner is hereby authorized to charge any additional fees which may be required for filing this application pursuant to 37 CFR §1.16, including all extension of time fees pursuant to 37 C.F.R. § 1.17 for maintaining copendency with the parent application, or credit any overpayment to Deposit Account No. 13-4500, Order No. 4610US1. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

Respectfully submitted,  
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By:   
Gerard E. Reinhardt  
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Dated: February 21, 2002

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